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**(54) METHOD AND DEVICE FOR CHARGING  
NICKEL-CADONIUM OR NICKEL-HYDROGEN  
SECONDARY BATTERY**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To make it possible to fully charge a nickel-cadmium or nickel-hydrogen secondary battery even if charging is started with a battery temperature near the upper limit point of a charging allowable temperature range.

**SOLUTION:** At all times during charging, a battery voltage is detected by a voltage detecting circuit 7 and a battery temperature is detected by a thermistor 4 and a temperature detecting circuit 8. Based on the detected voltage and temperature signals, a charging controlling circuit 12 calculates a rapid charging current value and the optimum charging time which correspond to the battery temperature, in each charging. A current select circuit 14 sets the charging current value in a variable constant current controlling circuit 15, which supplies current the most suitable for the battery temperature to a nickel-cadmium battery 2 and suppresses generation of heat of the battery during rapid charging.

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